ABSTRACT

DESIGN OF ROUND KEMPLANG

(Case Study At Mrs Shintia Factory)

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Factory kemplang Shintia Plaju mother, Palembang had problems in the printing kemplang. This is because they use tools that are still manual and workers feel the complaint on the arm of 66%, on the shoulder 68% after printing, so in affect processing time will be slower. Kemplang display devices is a draft that is designed specifically for factory kemplang Mother Shintia. From a technical aspect kuran this instrument is based kemplang mold dimensions, size (4.5 x 9.5) cm. For two rool for pemipih dough that is 2 inches. This tool is made using appropriate technologies that consider anthropometry workers with 65 cm height. From the economic aspect of the manufacturing cost of the printer and pemipih dough tool for Rp.620.000, -. Break even point in 18 packs or Rp.11.262.900 and payback period of 3 days. From the aspect of energy saving, energy expended by the worker becomes lighter ie before using the appliance 158.4 kcal / h while using the tool 125.4 kcal / hour. On the socio-cultural aspects in the design tools or custom tools necessary adjustments for 3 days in order to use the tool smoothly. For the ergonomic aspects of the tool size adjusted to the human anthropometry. After the display devices kemplang and pemipih dough is made can be produced with higher numbers and can be used by the entire industry kemplang traditional.

Keywords: kemplang display devices, appropriate technology, break event point, payback period, energy, anthropometry.